

[What is claimed is]

[Claim 1] A liquid crystal display device comprising:

dual bank typed source driver PCBs installed at the top and the bottom of a liquid crystal panel;

a gate driver PCB;

a staple-shaped main PCB formed in a body; and

a timing controller mounted at the main PCB to process signals input from the outside and generate driving signals, the main PCB transmitting the relevant driving signals to the respective source driver PCBs and the gate driver PCB.

[Claim 2] The liquid crystal display device of claim 1 wherein the staple-shaped main PCB has top and bottom portions proceeding in the horizontal direction and a side portion proceeding in the vertical direction, and the top and bottom portions of the main PCB axially meet the side portion of the main PCB at a predetermined angle except for a right angle.

[Claim 3] The liquid crystal display device of claim 1 or 2 wherein the top and bottom portions of the staple-shaped main PCB have an axial length of one second or more of the liquid crystal panel.

[Claim 4] The liquid crystal display device of claim 1 wherein the timing controller is positioned at the side portion of the staple-shaped main PCB.

[Claim 5] The liquid crystal display device of claim 1 wherein the respective top and bottom portions of the staple-shaped main PCB are connected to the corresponding source driver PCBs via one or more FPCs to transmit the relevant driving signals to the source driver PCBs.

[Claim 6] The liquid crystal display device of claim 1 wherein the side portion of the staple-shaped main PCB is connected to the gate driver PCB via one or more FPCs to transmit the relevant driving signals to the gate driver PCB.